

**GOVERNMENT OF ANDHRA PRADESH  
ABSTRACT**

Rules - The Andhra Pradesh Police (Stipendiary Cadet Trainee) Rules, 1999 – Certain Amendments – Orders – Issued.

**HOME (LEGAL.II) DEPARTMENT**

**G.O.Ms.No. 217**

**Dated: 22-12-2012.**  
**Read the following:-**

1. G.O.Ms.No.315, Home(Pol.C)Dept, dated 13.10.1999.
2. G.O.Ms.No.97, Home(Pol.C)Dept, dated 01.05.2006.
- 3.G.O.Ms.No.101, Home(Legal.II)Dept, dated 16.02.2009.
4. From the D.G.P., A.P., Hyderabad, Lr.Rc.No.1212/ R&T /Rect.2 /2011, dated.26.12.2011.
5. G.O.Ms.No.35, Home(Legal-II)Dept, dated 18.02.2012.
6. From the Secretary, Andhra Pradesh Public Service Commission, Lr.No.947/RR/2012, dt.15.12.2012.

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**ORDER:**

In the circumstances stated by the Director General of Police, Andhra Pradesh, Hyderabad in the letter 4<sup>th</sup> read above, the Government after careful examination of the matter have decided to issue amendments to the Andhra Pradesh Police (Stipendiary Cadet Trainee) Rules, 1999 issued in G.O.Ms.No.315, Home (Pol.C) Dept, dated 13.10.1999.

2 The following Notification will be published in an Extraordinary issue of the Andhra Pradesh Gazettee, dated: 27.12.2012.

**NOTIFICATION**

In exercise of the powers conferred by the proviso to Article 309 of the Constitution of India and of all other powers hereunto enabling the Governor of Andhra Pradesh hereby makes the following amendments to the Andhra Pradesh Police (Stipendiary Cadet Trainee) Rules, 1999 issued in G.O. Ms. No. 315, Home (Pol.C) Dept., dated: 13.10.1999 and published in supplement to part-1 of the Andhra Pradesh Gazette No.41-A, dated 18<sup>th</sup> November,1999 and as subsequently amended from time to time.

**AMENDMENTS**

**In the said rules,**

**1) in Annexure - I,**

**(i) in SI. No. 8, under column (6), for the existing entry (e), the following entry shall be substituted, namely:-**

“e) Written Examination: Candidates who qualify in the above Physical Efficiency Test will be required to appear for a written examination in three papers (each of three hours duration) as given below. The syllabus is given in Annexure IV.

Paper	Subject	Max. Marks
Paper I	English (Descriptive in nature)	100
Paper II	Arithmetic and Test of Reasoning / Mental Ability (Objective in nature) (No. of questions - 200)	100
Paper III	Technical Paper (Objective in nature) (No. of questions - 200)	200

**(P.T.O)**

**Note:** (i) The minimum marks to be secured by the candidates in order to qualify in the written examination is 40% for OCs; 35% for BCs; and 30% for SCs/STs and Ex-servicemen in each paper.

(ii) Paper I is only qualifying in nature. The cases of the candidates who do not secure the minimum qualifying marks in this paper will not be considered further in the selection process irrespective of their performance in papers II and III. The marks secured in this paper i.e., paper I will not be taken into account for final selection.

(iii) Questions in Papers II and III will be objective in nature and will be set in English and Telugu languages."

**ii) In SI.No.8, Under column (6) for the existing entry (f), the following entry shall be substituted, namely:-**

"(f) Selection: The final selection will be strictly on relative merit of the candidates in each category, as obtained by them based on their score in the written examination in papers II and III (300 marks). As per the provisions of "The Andhra Pradesh Public Employment (Organisation of Local cadres and regulation of direct recruitment) Order, 1975", the rule of reservation to local candidates is not applicable."

**(iii) In Sl. No. 10, under column (6), for the existing entry (e), the following entry shall be substituted, namely:-**

"(e) Written Examination: Candidates who qualify in the above Physical Efficiency Test will be required to appear for a written examination in one paper (three hours duration) as given below. The syllabus is given in Annexure V to this order.

Subject (1)	No. of questions (2)	Max. Marks (3)
Technical Paper (Objective in nature)	200	200

**Note:** (i) The minimum marks to be secured by the candidates in order to qualify in the written examination is 40% for OCs; 35% for BCs; and 30% for SCs/STs and Ex.Servicemen.

(ii) Questions will be objective in nature and will be set in English and Telugu languages."

**(iv) In Sl. No. 10, under column (6), for the existing entry (f), the following entry shall be substituted, namely:-**

"(f) Selection: The final selection will be strictly on relative merit of the candidates in each category, as obtained by them based on their score in the written examination (200 marks). As per the provisions of The Andhra Pradesh Public Employment (Organization of Local cadres and regulation of direct recruitment) Order, 1975, the rule of reservation to local candidates is not applicable."

**(v) In Sl. No. 12, under column (6), for the existing entries (e), the following entries shall be substituted, namely:-**

"(e) Written Examination: Candidates who qualify in the above Physical Efficiency Test will be required to appear for a written examination in three papers (each of three hours duration) as given below. The syllabus is given in Annexure VI to this order.

(Contd....3)

Paper (1)	Subject (2)	Max. Marks (3)
Paper I	English (Descriptive in nature)	100
Paper II	Arithmetic and Test of Reasoning / Mental Ability (Objective in nature) (No. of questions - 200)	100
Paper III	Technical Paper (Objective in nature) (No. of questions - 200)	200

**Note:** (i) The minimum marks to be secured by the candidates in order to qualify in the written examination is 40% for OCs; 35% for BCs; and 30% for SCs/STs and Ex.Servicemen in each paper.

(ii) Paper-I is only qualifying in nature. The cases of the candidates who do not secure the minimum qualifying marks in this paper will not be considered further in the selection process irrespective of their performance in papers II and III. The marks secured in this paper i.e., paper I will not be taken into account for final selection.

(iii) Questions in Papers II and III will be objective in nature and will be set in English and Telugu languages."

**(vi) In Sl. No. 12, under column (6), for the existing entry (f), the following entry shall be substituted, namely:-**

"(f) Selection: The final selection will be strictly on relative merit of the candidates in each category, as obtained by them based on their score in the written examination in papers II and III (300 marks). As per the provisions of The Andhra Pradesh Public Employment (Organization of Local cadres and regulation of direct recruitment) Order, 1975, the rule of reservation to local candidates is not applicable."

**(vii) In Sl. No. 13, under column (6), for the existing entries (e), the following entries shall be substituted, namely:-**

"(e) Written Examination: Candidates who qualify in the above Physical Efficiency Test will be required to appear for a written examination in one paper (three hours duration) as given below. The syllabus is given in Annexure VII to this order.

Subject (1)	No. of questions (2)	Max. Marks (3)
Technical Paper (Objective in nature)	200	200

**Note:** (i) The minimum marks to be secured by the candidates in order to qualify in the written examination is 40% for OCs; 35% for BCs; and 30% for SCs/STs and Ex.Servicemen.

(ii) Questions will be objective in nature and will be set in English and Telugu languages."

**(viii) In Sl.No.13 under column (6), for the existing entry (f), the following entry shall be substituted, namely:-**

"(f) Selection: The final selection will be strictly on relative merit of the candidates in each category, as obtained by them based on their score in the written examination (200 marks). As per the provisions of The Andhra Pradesh Public Employment (Organization of Local cadres and regulation of direct recruitment) Order, 1975, the rule of reservation to local candidates is not applicable."

**(ix) In Sl. No. 14, under column (6), for the existing entry (e), the following entry shall be substituted, namely:-**

**"(e) Driving test:** The candidates who qualify in the above Physical Efficiency Test will be required to appear and qualify in a driving test. The Chairman, State Level Police Recruitment Board will constitute a committee for conducting this test.

The candidates must qualify in the Driving Test carrying a maximum of 100 marks in eight parameters mentioned below out of which at least 50 marks must be obtained. If a candidate secured less than the prescribed minimum marks in three or more parameters he would be deemed to have failed in the test even though he secures minimum marks i.e., 50 marks in the aggregate.

Sl. No. (1)	Subject (2)	Maximum Marks (3)	Minimum Marks (4)
(01)	Starting a Light Motor Vehicle such as Jeep / Car from rest on the level up-gradient and down gradient	10	5
(02)	Gear changing up & down	10	5
(03)	Road sense, general driving, control of vehicle in all conditions of traffic & steering control, anticipation & judgment	20	10
(04)	Use of brakes, stopping, parking, reversing of vehicles	10	5
(05)	Following Road Police Signals / Traffic Signals	10	5
(06)	To carry out minor repairs & to attend to breakdown problems	15	8
(07)	Knowledge of Motor Vehicle Mechanism	15	7
(08)	Knowledge of preventive maintenance	10	5
	<b>Total</b>	<b>100</b>	<b>50</b>

**(x) In Sl. No. 14, under column (6), for the existing entry (f), the following entry shall be substituted, namely:-**

**"(f) Written Examination:** Candidates who qualify in the above Physical Efficiency Test will be required to appear for a written examination in one paper (three hours duration) as given below. The syllabus is given in Annexure VIII to this order.

Subject (1)	No. of questions (2)	Max. Marks (3)
Technical Paper (Objective in nature)	200	200

**Note:** (i) The minimum marks to be secured by the candidates in order to qualify in the written examination is 40% for OCs; 35% for BCs; and 30% for SCs/STs and Ex.Servicemen.

(ii) Questions will be objective in nature and will be set in English and Telugu languages."

(Contd...5)

**(xi) In Sl. No. 14, under column (6), for the existing entry (g), the following entry shall be substituted, namely:-**

"(g) Selection: The final selection will be strictly on relative merit of the candidates in each category, as obtained by them based on their score in the driving test and written examination (300 marks). As per the provisions of The Andhra Pradesh Public Employment (Organisation of Local cadres and regulation of direct recruitment) Order, 1975, the rule of reservation to local candidates is not applicable."

**(xii) In Sl. No. 18, under column (6), for the existing entry (e), the following entry shall be substituted, namely:-**

"(e) Written Examination: Candidates who qualify in the above Physical Efficiency Test will be required to appear for a written examination in three papers (each of three hours duration) as given below. The syllabus is given in Annexure IX to this order.

Paper (1)	Subject (2)	Max. Marks (3)
Paper I	English (Descriptive in nature)	100
Paper II	Arithmetic and Test of Reasoning / Mental Ability (Objective in nature) (No. of questions - 200)	100
Paper III	Technical Paper (Objective in nature) (No. of questions - 200)	200

**Note:** (i) The minimum marks to be secured by the candidates in order to qualify in the written examination is 40% for OCs; 35% for BCs; and 30% for SCs/STs and Ex.Servicemen in each paper.

(ii) Paper I is only qualifying in nature. The cases of the candidates who do not secure the minimum qualifying marks in this paper will not be considered further in the selection process irrespective of their performance in papers II and III. The marks secured in this paper i.e., paper I will not be taken into account for final selection.

(iii) Questions in Papers II and III will be objective in nature and will be set in English and Telugu languages."

**(xiii) In Sl. No. 18, under column (6), for the existing entry (f), the following entry shall be substituted, namely:-**

"(f) Selection: The final selection will be strictly on relative merit of the candidates in each category, as obtained by them based on their score in the written examination in papers II and III (300 marks). As per the provisions of The Andhra Pradesh Public Employment (Organization of Local cadres and regulation of direct recruitment) Order, 1975, the rule of reservation to local candidates is not applicable."

**2. (i) For Annexure - II, the following shall be substituted, namely:-**

**"ANNEXURE - II**

**PAPER I: ENGLISH (DESCRIPTIVE TYPE)**

The candidate's understanding of the English language, its correct usage and his writing ability would be tested. Questions on short essay, comprehension, précis, letter writing, paragraph writing / report writing, translation from English to Telugu etc. would be included

(Contd....6)

**PAPER II:**

The candidates can choose to have one of the languages i.e., either Telugu or Urdu and should indicate his choice as and when asked for by the recruiting authority. Option once exercised will be final and a candidate will not be allowed to change it subsequently.

**TELUGU (DESCRIPTIVE TYPE)**

The candidate's understanding of the Telugu language, its correct usage and his writing ability would be tested. Questions on short essay, comprehension, précis, letter writing, paragraph writing / report writing, translation from Telugu to English etc. would be included.

**URDU(DESCRIPTIVE TYPE)**

The candidate's understanding of the Urdu language, its correct usage and his writing ability would be tested. Questions on short essay, comprehension, précis, letter writing, paragraph writing / report writing, translation from Urdu to English etc. would be included.

**PAPER III: ARITHMETIC & TEST OF REASONING / MENTAL ABILITY (OBJECTIVE TYPE) (200 QUESTIONS)**

**Arithmetic:** It will include questions on problems relating to number system, simple interest, compound interest, ratio & proportion, average, percentage, profit & loss, time & work, work & wages, time & distance, clocks & calendars, partnership, mensuration etc.

**Test of Reasoning:** It will include questions of both verbal & non-verbal type and include question on analogies, similarities and differences, spatial visualisation, spatial orientation, problem solving, analysis, judgment, decision making, visual memory etc

**PAPER IV: GENERAL STUDIES (OBJECTIVE TYPE) (200 QUESTIONS)**

1. General Science - contemporary developments in science and technology and their implications including matters of everyday observation and experience, contemporary issues relating to protection of environment as may be expected of a well educated person who has not made a special study of any scientific discipline.
2. Current events of national and international importance.
3. History of India – emphasis will be on broad general understanding of the subject in its social, economic, cultural and political aspects. Indian National Movement.
4. Geography of India
5. Indian Polity and Economy – including the Country's political system, rural development, planning and economic reforms in India.”

**3. For Annexure - III, the following shall be substituted, namely:-****“ANNEXURE - III (OBJECTIVE TYPE) (200 QUESTIONS)**

1. English\*
2. Arithmetic
3. Test of Reasoning / Mental Ability
4. General Science
5. History of India, Indian culture, Indian National Movement.

6. Indian Geography, Polity and Economy
7. Current events of national and international importance

\* The questions relating to 'English in the syllabus' will be set in English only in the Telugu /Urdu version of the question paper also.

**4. For Annexure - IV, the following entries shall be substituted, namely:-**

**"Annexure - IV**

[Please see Annexure – I, Sl. No. 8, Column 6(e)]

**PAPER I: ENGLISH (DESCRIPTIVE TYPE)** - Same as in Annexure II

**PAPER II: ARITHMETIC & TEST OF REASONING / MENTAL ABILITY (OBJECTIVE TYPE)** - Same as in Annexure II

**PAPER III: TECHNICAL PAPER (OBJECTIVE TYPE)**

1. Materials and Components: Structure of properties of Electronic Engineering, materials, conductors, semiconductors and insulators, magnetic, ferroelectric, piezoelectric, ceramic, optical and superconducting materials. Passive components and characteristics, Resistors, Capacitors and Inductors; Ferrites, Quartz crystal, Ceramic resonators, Electromagnetic and Electromechanical components.
2. Physical Electronics, Electron Devices and ICs : Different types of diodes and their characteristics, Bipolar junction transistors, Field transistors, Field effect transistors, power switching devices like SCRs, CTOs, power MOSFETs Basics of ICs-bipolar, MOS and CMOS types, Basics of Opto-Electronics
3. Network Theory : Network analysis techniques; Network theorem, transient and steady state sinusoidal response, Transmission criteria: delay and rise time Elmore's and other definition, effect of cascading. Elements of network synthesis.
4. Electromagnetic Theory : Transmission lines; basic theory, standing waves, matching applications, microstrip lines; Basics of wave guides and resonators; Elements of antenna theory.
5. Electronic Measurements and Instrumentation : Basic concepts, standards and error analysis; Measurements of basic electrical quantities and parameters; Electronic measuring instruments and their principles of working; analog and digital comparision, characteristics, applications. Transducers; Electronic measurements of non-electrical quantities like temperature, pressure, humidity etc. Basics of telemetry for industrial use.
6. Power Electronics : Power Semiconductor devices, Thyristor, Power transistor, MOSFETs Characteristics and operation, AC to DC convertors; 1 - phase and 3 phase DC to DC convertors, AC regulators, Thyristor controlled reactors, switched capacitor networks, Invertors; Single-phase and 3 phase, Pulse width modulation, Sinusoidal modulation with uniform sampling, Switched mode power supplies.
7. Analog Electronic Circuits : Transistor biasing and stabilization, small signal analysis, Power amplifiers, Frequency response, Wide band techniques, Feedback amplifiers, Tuned amplifiers, Oscillators, Rectifiers and Power supplies, Operational Amplifier, other linear integrated circuits and applications, Pulse shaping circuits and waveform generators.

(Contd...8)

8. Digital Electronic Circuits : Transistors as a switching element; Boolean algebra; simplification of Boolean functions; Karnaugh Map and applications; IC logic gates and their characteristics; IC logic families; DTL, TTL, ECL, NMOS, PMOS and CMOS gates and their comparison; Combinational logic circuits; Half adder; full adder, Digital Comparator; Multiplexer De-multiplexer; ROM and their applications; Flip-flops, R-S, J-K, D and T flip-flops; Different types of counters and registers; waveform generators; A/D and D/G convertors; Semiconductor memories.
9. Communication Systems and antennas: Basic information theory, Modulation and detection in analogue and digital systems, Sampling and data reconstruction, Quantization & Coding, time division and frequency division multiplexing, Equalisation, Optical Communication; in free space & fiber optic; frequency spectrum analysis, Propagation of signals at HF, VHF, UHF and microwave frequency; Satellite communication, and Mobile communications. Antennas, applications, cellular and PCS antennas.
10. Microwave Engineering : Microwave tubes and solid state devices, Microwave generation and amplifiers, Wave guides and other Microwave Components and Circuits, Micro-strip circuits, Microwave antennas, Microwave measurements, Masers Lasers Microwave propagation. Microwave Communication Systems- terrestrial and satellite based.
11. Computer Engineering : Number Systems; Data representation, Programming; Elements of a high level programming languages, use of basic data structures, Fundamentals of computer architecture processor design, Control unit design, Memory organization, I/O system organization, Personal computer and their typical uses.
- Mother board peripherals, accessories, windows operating system, PC assembly and software installation, processor management, storage management, file systems, networking & LAN, basics of WAN, WAN protocols, networking management, system administration, web applications.
- Data structures using C, data base management concepts of SQL, schema objects, Programming Languages C,C++, Visual basics.
12. Microprocessors: Microprocessor Architecture-Instruction set and simple assembly, language programming, Interfacing for memory and I/C, Applications of Microprocessor in Telecommunications and power system.
13. Television Engineering : Picture tube construction and working principle. Deflections Camera tubes, Basic T.V. system. Scanning, Synchronization, Composite Video Signals, aspect ratio, resolution, flickering, pictures, sound broad casting in F.M., V.H.F. and U.H.F. Channels, typical response of video I.F. amplifiers, use of wave traps, video amplifiers, nature of video signals. Sync Pulses and blanking pulses in the video signals, differentiating circuit used for pulse separation. Horizontal deflection principle. Principle of video cameras, video cassette recorder. Principle of closed circuit T.V. system. Video Conferencing
14. Radar and Landing systems : Principles of operation of Radar, Radar range equation, modification of Radar range equation considering receiver noise and radar frequencies. Working of Pulsed radar, function of duplexer and modulator, Radar beacon. Principle of C.W radar, Doppler frequency shift, FMCW radar, FM altimeter, display systems, Basic principles of MTI radar and Tracking radar. Aircraft landing systems, ILS, GCA, ARSR and SRA.

(Contd...9)

- 15. Control systems :** Transient and steady state response of control systems, effect of feedback on stability and sensitivity, Root locus techniques; Frequency response analysis, concepts of gain and phase margins, Constant-M and Constant-N Nichol's chart, Approximation of transient response from closed loop frequency response, Design of Control Systems, Compensators Industrial controllers.
- 16. Telephone Systems:** PSTN telephone network, Local Loops, signals and noise in telephone systems, telephone instruments, FDM, Digital transmission, digital Local loops, EPABX, FAX, internet telephony. GSM and CDMA phone system

**Multiplexing and multiple access techniques:** digital subscriber line, Frequency Division multiplexing and access, Time division multiplexing and multiple access, spread-spectrum, Code division multiple access. Teleconferencing

**5. For Annexure - V, the following shall be substituted, namely:-**

**"ANNEXURE - V**

[Please see Annexure – I, Sl. No. 10, Column 6(e)]

Technical paper (objective in nature) (No. of questions 200) (Marks 200)

**1. Electrical :** Characteristic and Application of conductors, Insulators, Semiconductors; Construction of carbon, wire wound (linear logarithmic) resistors, thermistors potentiometers; Kirchhoff's law, Ohm's Law; principle of construction and special feature of simple meter, Moving iron/Moving coil meter, VTVM, Universal meter, Ohm meter and Ammeter; alternating current, A.C induced voltage, current; Faraday's principle; Lenz's law of self induction; A.C generators and Fleming three finger rule, Frequency peak, average R.M.S values; Function and application of vibrators;

**2. Electronics & Radio:** Characteristics and Application of inductance in a tuned circuit; Coil-Concept of reactance, phase, power factor, Inductance and coefficient of coupling; series and parallel connection of capacitor in A.C circuits, different types of capacitors and their application, basic elements of resonance circuit, parallel L.C circuit, Anti-resonance circuit, tuning and current gain, construction of Transistors, Bi-polar junction devices, PNP & NPN transistors and dynamic curves, principle of FET transistors, uses of diodes as rectifiers, Half wave and Full wave rectifier circuit, Bridge rectifiers, effect of ripples, uses of filters, carrier modulation (AM and FM) Single side band, Band width, Fidelity and quality construction in the receiver, detectors, discriminators, Range of Audio and quality construction in the receiver, detectors, discriminators, Range of Audio Frequency, Necessity for amplifications like Class 'A' 'B' and 'C', push-pull voltage amplifier, principle of superheterodyne receiver, frequency conversion, I.F amplification, Principle of Magnetic sound recording, magnetic tapes, magnetic heads erasing head, Television principles, Construction and working principle of Picture tube Deflection camera tube, basic T.V. System scanning synchronization composite video signal.

**3. Basics of Computers :** MS-Office (MS-word, EXCEL and Power point): Fundamentals of Computer Architecture, Mother board and peripherals, accessories, MS-DOS, Windows operating systems, PC assembly and software installation, networking & LAN, basics of WAN.

**4. Telephone System:** Basics of PSTN telephone network, Telephone instruments, EPABX, FAX, Internet telephony, GSM and CDMA phone system.

(Contd....10)

**6. For Annexure - VI, the following shall be substituted, namely:-**

**"ANNEXURE - VI**

[Please see Annexure – I, Sl. No. 12, Column 6(e)]

**PAPER I: ENGLISH (DESCRIPTIVE TYPE)** - Same as in Annexure II

**PAPER II: ARITHMETIC & TEST OF REASONING / MENTAL ABILITY (OBJECTIVE TYPE)** - Same as in Annexure II

**PAPER III: TECHNICAL PAPER (OBJECTIVE TYPE)**

Basic Mechanical Engineering, Workshop Technology, Automobile Power Plants, Strength of materials and fluid Mechanics, Engineering Material and Manufacturing Process, Machine Drawing, Theory of Machines, Industrial Management and Entrepreneurship, Automobile servicing and maintenance and Diagnosis and Testing Automobile Servicing and Maintenance, Farm Machines and Equipment, Motor Transport Organisation and Fleet Management, Motor Transport Organisation Environmental Management, Automobile Electrical System, Computers and Information Technology, Leadership Qualities.

**7. For Annexure - VII, the following shall be substituted, namely:-**

**"ANNEXURE - VII**

[Please see Annexure – I, Sl. No. 13, Column 6(e)]

Technical paper (objective nature) (200 questions) (200 Marks)

Introduction to Automobiles, 4 and 2 Strokes Spark Ignition Engine, Compression Ignition, Engines and working principles, Petrol and Diesel Engine Components, Valve and operating Mechanism, Cooling System, Lubricating System, Fuel system in Petrol Engine, Ignition System, Fuel Injection System in diesel engines. Intake and Exhaust System, Battery, Automotive Electricity, Alternator, Dynamo, Cut out, Fuses, Self Starter, Wiring and Electrical Accessories, Brakes, Transmission Systems, Wheel Alignment, Steering, Suspension, Mechanic Tools, Work Shop Tools, Servicing of vehicles, Check up of vehicles for Road Worthiness, Fleet Maintenance of vehicles, Safety Precautions.

**8. For Annexure - VIII, the following shall be substituted, namely:-**

**"ANNEXURE - VIII**

[Please see Annexure – I, Sl. No. 14, Column 6(f)]

Technical paper (objective nature) (200 questions) (200 Marks)

Maintenance Responsibility, Drivers daily routine duty, Daily maintenance, Weekly Maintenance, Periodical Maintenance, Battery maintenance, its specific gravity, Tyres Maintenance and rotation, Fuel system, Ignition System, Lighting System, Brake System, Clutch & Transmission System, Fuel Accountability, Dash Board Instruments, Canopy and Seats Cleaning off Wind Screen and Wipers, Minor Repairs Viz. Fan Belt Replacements, Attending Wheel Punctures, Air Lock Removal, MV Act and Rules, Traffic Signals, First Aid Practice, Safety Precautions.

**9. For Annexure - IX, the following shall be substituted, namely:-  
ANNEXURE - IX**

[Please see Annexure – I, Sl. No. 18, Column 6(e)]

**PAPER I: ENGLISH (DESCRIPTIVE TYPE)** - Same as in Annexure II

**PAPER II: ARITHMETIC & TEST OF REASONING / MENTAL ABILITY (OBJECTIVE TYPE)** - Same as in Annexure II

**PAPER III: TECHNICAL PAPER (OBJECTIVE TYPE)**

**1. Computer Hardware:**

- a. Computer Architecture: Fundamentals of Computers, PC Assembling, Installation, Trouble Shooting, Viruses.
- b. The Memory System: Memory Hierarchy, ROM, RAM, DRAM, Storage Devices, Secondary memory and RAID and its Levels; Concepts of high speed memories, CPU, NIC cards.
- c. Computer Peripherals: Keyboard, Mouse, Video Cards, Monitors, Liquid Crystal Displays (LCD), Digital Camera, Sound Cards, Printers, Modems, Scanners, Power Supply and etc.

**2. Computer Software:**

- i) Operating Systems: Computer fundamentals, DOS Commands, windows accessories & utilities.
- ii) Windows: Windows Generations – Installation and maintenance, File management, Creating user accounts and passwords, Administrative tools, Control panels, Services, Settings, Multimedia, printers.
- iii) Data Base Management, basic concepts, RDBMS, Data types, tables, views, transactions, concurrency, reports

**3. Application Software: (MS-Office)**

- i) MS- Word : Basics, file operations, formatting & editing text, tables, inserting objects and page design, macros and mail merge, creating documents and printing.
- ii) MS-Excel: Cell formatting, graphic objects and charts, database, pivot tables, data validation. Maths functions and calculations, templates, file protection and printing
- iii) MS Power Point: Essential elements of presentation, creating and adding slides, format, design, layout, slide show presentations and printing.
- iv) MS Access: Database, Tables, Data sheets, Queries, Forms, Date Entry and Editing. Reports.

(Contd...12)

**4. Networking & Security Management:**

The Topologies – Types of Networks: Local Area Networks (LAN), Metropolitan Networks (MAN), Wide Area Networks (WAN) – Firewall Policy, Packet filters, Application Gateway, Advanced authentication mechanism. Anti virus concepts, Encryption, VPN, Internet, Intranet.

**(BY ORDER AND IN THE NAME OF GOVERNOR OF ANDHRA PRADESH)**

**T.P.DAS  
PRINCIPAL SECRETARY TO GOVERNMENT**

To

The Director General of Police, Andhra Pradesh, Hyderabad.  
 The Chairman, State Level Police Recruitment Board, A.P., Hyderabad.  
 The Secretary, A.P., Public Service Commission, Hyderabad(10 copies)  
 The Finger Print Bureau, CID, Hyderabad.  
 The Police Transport Organization, Hyderabad.  
 The Police Communication Organization, Hyderabad.  
 The Commissioner of Printing, Stationery and Stores Purchase, A.P,  
     Hyderabad(with a request to publish the notification in the Andhra  
     Pradesh Gazette and send 200 copies to the Government for use and record).

**Copy to:-**

The General Administration (Ser.A) Department.  
 The Law (E) Department.  
 P.S., to the Principal Secretary to Government, Home Department.  
 SF/SC

FORWARDED :: BY ORDER

SECTION OFFICER